

Amendments to the Claims

This listing of claims replaces all prior versions, and listings, of claims in the application.

Listing of Claims

~~Claim 1.~~ (Currently amended)[[:]] An apparatus for the treatment of a medical liquid comprising a liquid treatment machine and a cassette insertable ~~into it substantially consisting of therein,~~
the cassette including a rigid base body of a cassette with fitted chambers and passages and a foil covering them that covers the chambers and passages[[:]] ~~characterized in that and~~
the liquid treatment machine including actuators and sensors are arranged in the liquid treatment machine for the operation of the apparatus with the inserted cassette such that cassettes can be inserted in different integration shapes,
wherein a surface of a machine block and of the cassette is in each case divided into a plurality of surface regions (A, B), with components of the actuators or sensors to be coupled being accommodated in one surface which is common as a basic variant to all cassettes and wherein further surfaces are contained in which actuators or sensors are arranged.

~~Claim 2.~~ (Currently amended)[[:]] ~~An~~ The apparatus in accordance with claim 1, wherein the ~~cassettes are made as disposables~~ ~~(disposable cassettes)~~ cassette is disposable.

~~Claim 3.~~ (Currently amended)[[:]] ~~An~~ The apparatus in accordance with claim 1, wherein the cassettes can be used for different application purposes.

~~Claim 4.~~ (Currently amended)[[:]] ~~An~~ The apparatus in accordance with claim 3, wherein the application purposes are ~~the~~ standard hemodialysis, online hemodiafiltration or online hemofiltration or acute treatment.

~~Claim 5.~~ (Currently amended)[[:]] ~~An~~ The apparatus in accordance with claim 1, wherein the cassette has a molded handle at ~~the~~ a side ~~at~~ of the rigid base body of the cassette.

~~Claim 6.~~ (Currently amended)[[:]] ~~An~~ The apparatus in accordance with claim 5, wherein a dialyzer is integrated at the side ~~at~~ of the base body of the cassette, with it simultaneously forming the handle.

~~Claim 7.~~ (Currently amended)[[:]] ~~An~~ The apparatus in accordance with claim 1, wherein the liquid treatment machine has a frame to

which a door is fitted and in which a the machine block is guided, with the door and the machine block being alignable with respect to one another such that the cassette can be received between ~~them~~ the door and the machine block in a sealed manner.

~~Claim 8.~~ (Currently amended)[[:]] ~~An~~ The apparatus in accordance with claim 7, ~~wherein the machine block is guided movably in the frame, with it being movable in the direction of further~~ comprising a pressing actuator system that provides an air cushion to move the machine block toward the closed door for the sealing reception of the cassette ~~via a pressing actuator system consisting of an air cushion.~~

~~Claim 9.~~ (Currently amended)[[:]] ~~An~~ The apparatus in accordance with claim 7, wherein the machine block includes valves, and further comprising an air distributor plate with integrated passages that adjoins the machine block and that is configured to conduct compressed air and/or a vacuum ~~can be guided via it~~ from corresponding pneumatic connections to the actuators and the valves in the machine block.

~~Claim 10.~~ (Currently amended)[[:]] ~~An~~ The apparatus in accordance with claim 1, wherein at least one centering recess is cut out in the cassette which engages into at least one projection at ~~the~~ a

frame side[[:]] and ~~in that optionally, additionally,~~ at least one stop means[[:]] ~~for example a snap-in hook[[:]]~~ is provided via which fixes the cassette ~~can be fixed~~ on the a surface of the machine block.

~~Claim 11.~~ (Currently amended)[[:]] ~~An~~ The apparatus in accordance with claim 1, wherein ~~the~~ a door can be latched to ~~the~~ a frame after ~~its closing~~ the door is closed, with the latched state being monitorable via sensors.

~~Claim 12.~~ (Currently amended)[[:]] ~~An~~ The apparatus in accordance with claim 1, wherein an elastic mat is arranged between the cassette and the machine block.

~~Claim 13.~~ (Currently amended)[[:]] ~~An~~ The apparatus in accordance with claim 12, wherein the elastic mat has recesses for a pump chamber to be provided[[:]] ~~for example~~[[:]] and mat passages which extend along liquid-carrying passages of the cassette.

~~Claim 14.~~ (Currently amended)[[:]] ~~An~~ The apparatus in accordance with claim 1, wherein sensor modules are integrated in the liquid treatment machine ~~substantially~~ for the determination of the parameters of the medical liquid to be treated and which are each

designed in pairs and of which one part of the pair is installed in the machine block and the other part in ~~the~~ a door.

~~Claim 15.~~ (Currently amended)[[:]] ~~An~~ The apparatus in accordance with claim 1, wherein a venting unit is integrated in the liquid treatment machine which can be coupled to a gas-permeable membrane integrated in the cassette.

~~Claim 16.~~ (Canceled)

~~Claim 17.~~ (Currently amended)[[:]] A cassette for use in ~~an~~ the apparatus in accordance with claim 1, ~~characterized in that it~~ wherein the cassette has at least one[[:]] ~~preferably two~~[[:]] pump ~~chambers~~ chamber, at least one measuring chamber, a venting chamber, integrated passages and a plurality of ports.

~~Claim 18.~~ (Currently amended)[[:]] A The cassette in accordance with claim 17, wherein the base body of the cassette consists of polypropylene.

~~Claim 19.~~ (Currently amended)[[:]] ~~A cassette~~ The apparatus in accordance with claim 1, wherein the cover foil consists of a polyolefin elastomer mixture.

~~Claim 20.~~ (Currently amended)[[:]] ~~A cassette~~ The apparatus in accordance with claim 1, wherein ~~the~~ a venting chamber is formed[[:]] ~~on the one hand~~[[:]] by a molding in the base body of the cassette and[[:]] ~~on the other hand~~[[:]] by the cover foil which can be sucked into a recess provided for this purpose at the machine side.

~~Claim 21.~~ (Currently amended)[[:]] A The cassette in accordance with claim 17, wherein the at least one pump chamber has an inlet and an outlet that are substantially tangential inlets and outlets to each other.

~~Claim 22.~~ (Currently amended)[[:]] A The cassette in accordance with claim 21, wherein the at least one pump chamber ~~substantially~~ has ~~the~~ a shape of a spherical section and wherein a standing bead is formed such that a flushing passage is formed between ~~the~~ an upper edge of the base body of the cassette and the cover foil in ~~the~~ a pressing-out phase.

~~Claim 23.~~ (Currently amended)[[:]] A The cassette in accordance with claim 22, wherein ~~the~~ a spherical surface of the pump at the machine side has a smaller radius in comparison with the pump chamber at the cassette side such that a flushing passage is

formed which corresponds to a difference between the spherical surface of the pump and the pump chamber.

~~Claim 24.~~ (Currently amended)[[:]] A The cassette in accordance with claim 17, wherein the at least one measuring chamber has ~~the~~ a shape of a diffuser nozzle.

~~Claim 25.~~ (Currently amended)[[:]] A The cassette in accordance with claim 17, wherein all passages and chambers each have an edge bead at ~~the~~ a side which faces the cover foil ~~and wherein optionally webs accompanying the passage are formed at the rear side of the passage and a linear pressing force distribution can be achieved via them.~~

~~Claim 26.~~ (Currently amended)[[:]] A The cassette in accordance with claim 17, wherein the base body of the cassette is welded to the cover foil at ~~the~~ an outer edge and wherein ~~an optionally a~~ substitute-carrying region in the cassette is surrounded by a weld ~~seam~~ seam.

~~Claim 27.~~ (Currently amended)[[:]] ~~A cassette~~ The apparatus in accordance with claim 1, wherein ~~it~~ the cassette is operable in a two-needle or a single-needle operation.

~~Claim~~ 28. (Currently amended)[[:]] A cassette set consisting of cassettes in accordance with claim 1, ~~characterized in that~~ wherein the set comprises cassettes for the application purposes standard hemodialysis, online hemodiafiltration or online hemofiltration and acute treatment.

29. (New) The apparatus according to claim 10, wherein the stop means is a snap-in hook.

30. (New) The cassette according to claim 25, further comprising a web provided at a rear side of the passage to distribute a linear pressing force to the edge bead.